

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000455

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: C22B 3/20 // C22B 19:00**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: C22B, G01N**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**EPO-INTERNAL, WPI DATA, PAJ**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4917775 A (SEPO V. RANTAPUSKA ET AL), 17 April 1990 (17.04.1990), column 4, line 60 - line 66, figures 2-3, example 2 --	1-19
A	DE 3819020 A1 (OUTOKUMPU OY), 15 December 1988 (15.12.1988), abstract --	1-19
A	US 4021199 A (SATOSHI MUKAE ET AL), 3 May 1977 (03.05.1977), column 1, line 10 - line 14, figure 4 --	1-19
A	WO 9641039 A1 (COMINCO LTD.), 19 December 1996 (19.12.1996), abstract, detail 20 --	1-19

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

4 January 2005

Date of mailing of the international search report

04-01-2005

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. + 46 8 666 02 86

Authorized officer  
**Mårten Hulthén/MP**  
Telephone No. + 46 8 782 25 00

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/FI 2004/000455

**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1248102 A1 (ENDRESS + HAUSER CONDUCTA GESELLSCHAFT FÜR MESS- UND REGELTECHNIK MBH + CO.), 9 October 2002 (09.10.2002), abstract --- -----	1-19

INTERNATIONAL SEARCH REPORT  
Information on patent family members

01/10/2004

International application No.
PCT/FI 2004/000455

US	4917775	A	17/04/1990	AU	582587	B	06/04/1989
				AU	4844385	A	08/05/1986
				CA	1243349	A	18/10/1988
				DE	3538443	A	30/04/1986
				FI	78990	B,C	30/06/1989
				FI	844246	A	01/05/1986
				FR	2572532	A,B	02/05/1986
				JP	2030676	C	19/03/1996
				JP	7062664	B	05/07/1995
				JP	61118160	A	05/06/1986
				NO	854217	A	02/05/1986
				SE	465233	B,C	12/08/1991
				SE	8504943	A	01/05/1986
				ZA	8507934	A	28/05/1986
DE	3819020	A1	15/12/1988	AU	1690688	A	08/12/1988
				FI	872488	A	04/12/1988
				FR	2616159	A	09/12/1988
				IT	1217750	B	30/03/1990
				IT	8820818	D	00/00/0000
				JP	63312991	A	21/12/1988
				NL	8801406	A	02/01/1989
				NO	882410	A	05/12/1988
US	4021199	A	03/05/1977	AU	8245675	A	06/01/1977
				BE	830643	A	16/10/1975
				DE	2527949	A	15/01/1976
				ES	439060	A	01/02/1977
				FI	58355	B,C	30/09/1980
				FI	751881	A	26/12/1975
				FI	792937	A	21/09/1979
				FR	2355927	A,B	20/01/1978
				GB	1511807	A	24/05/1978
				JP	51008189	U	21/01/1976
				JP	51009179	A	24/01/1976
				NL	7507561	A	30/12/1975
				NO	142150	B,C	24/03/1980
				NO	144941	B,C	31/08/1981
				NO	752257	A	30/12/1975
				NO	763992	A	30/12/1975
WO	9641039	A1	19/12/1996	AU	694666	B	23/07/1998
				AU	5993596	A	30/12/1996
				CA	2221779	A	19/12/1996
				US	5833830	A	10/11/1998
EP	1248102	A1	09/10/2002	DE	10116614	A,C	17/10/2002
				US	20040069619	A	15/04/2004